

A B S T R A C T

A METHOD AND APPARATUS FOR STEAM CRACKING HYDROCARBONS

5 A method and apparatus for steam cracking
hydrocarbons, which method consists in heating a mixture
of hydrocarbons and steam to a desired temperature that
is high enough to crack the hydrocarbons and transform
them into olefins, the method being characterized in that
10 the source of energy needed for heating the mixture is
supplied essentially by cogeneration using combustion of
a fuel to produce simultaneously both heat energy and
mechanical work which is transformed into electricity by
an alternator, and in that the mixture is initially
15 subjected to preheating using the heat energy supplied by
the cogeneration, and is subsequently heated to the
desired cracking temperature by means of electrical
heating using the electricity supplied by the
cogeneration.

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Translation of the title and the abstract as they were when originally filed by the
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